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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/524,381
Filing Date	2/14/05
First Named Inventor	Hawley
Art Unit	NA
Examiner Name	NA
Attorney Docket Number	IMM-002US

4

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	* PTO 1449 Form * Copies of 18 references * Postcard	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Keown & Associates		
Signature			
Printed name	Joseph C. Zuccheri		
Date	May 17 2005	Reg. No.	55,762

CERTIFICATE OF TRANSMISSION/MAILING

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Robert J. Hawley**

Serial No.: **10/524,381**

Filed: **February 14, 2005**

Entitled: **α (1-3)-Galactosyltransferase Null Cells, Methods of Selecting and α (1-3)-Galactosyltransferase Null Swine Produced Therefrom**

Examiner: **NA**

Group Art Unit: **NA**

Attorney Docket No.: **IMM-002US (1004/003)**

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant and his attorney are aware of the following publications and information listed on the attached PTO Form 1449, and in accordance with 37 C.F.R. §1.97 hereby submit these publications for the Examiner's consideration.

Applicant further states that identifier C6 is a book which is too voluminous to enclose herewith.

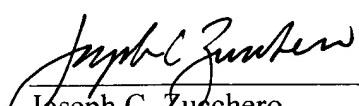
This submission does not represent that a search has been made and does not constitute an admission that the listed documents are material to patentability or that the listed documents are prior art. If it should be determined that any of the listed documents constitute "prior art" under United States law, Applicants reserve the right to present to the Office relevant facts and law regarding the appropriate status of such documents.

Information Disclosure Statement
U.S. Serial No. 10/524,300
Robert J. Hawley
Page 2

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits and is therefore submitted as both timely and proper. Therefore, no fees are believed to be due.

Respectfully submitted,

Date: May 17 2005


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Subt. Form PTO-1449 INFORMATION DISCLOSURE IN AN APPLICATION (Use several sheets if necessary)	Docket Number IMM-002US1	Application Number 10/524,381
	Applicant Hawley	
	Filing Date August 13, 2003	Group Art Unit NA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	IDENTIFIER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	5,821,117		Sandrin et al.			
	A2	6,166,288		Diamond et al.			
	A3	6,331,658		Cooper et al.			
	A4	5,849,991		D'Aspice et al.			
	A5	6,153,428		Gustaffson et al.			
	A6	6,413,769					

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	IDENTIFIER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	B1	WO 01/88096		PCT				
	B2	WO 97/16064		PCT				
	B3	WO 95/28412 A1		PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	IDENTIFIER	
	C1	Evans, R.W., "Coming to Terms with Reality: Why Xenotransplantation is a necessity", <i>Xenotransplantation</i> , J.L. Platt, Ed., ASM Press, Wash., DC, 29-51 (2001).
	C2	Lambrichts et al., "Discordant Organ Xenotransplantation in Primates", <i>Transplantation</i> , 66(5):547-561 (1998).
	C3	Costa et al., "Expression of the Human 1,2-Fucosyltransferase in Transgenic pigs Modifies the Cell Surface Carbohydrate Phenotype and Confers Resistance to Human Serum-Mediated Cytolysis", <i>FASEB J.</i> , 13:1762-1773 (1999).
	C4	Miyagawa et al., "Remodeling of the Major Pig Xenoantigen by N-Acetylglucosaminyltransferase III in Transgenic Pig", <i>J. Biol. Chem.</i> , 276(42):39310 39319 (2001).
	C5	Thall et al., "Oocyte Galα1,3Gal Epitopes Implicated in Sperm Adhesion to the Zona Pellucida Glycoprotein ZP3 are Not Required for Fertilization in the Mouse", <i>J. Biol. Chem.</i> , 270(37):21437-21440 (1995).
	C6	Park et al., <i>Anim. Biotech.</i> , In Press (2001).
	C7	Dai et al., "Targeted Disruption of the α1,3-Galactosyltransferase Gene in Cloned Pigs" <i>Nature Biotechnol.</i> , 20(3):251-255 (2002).
	C8	Lai et al., "Production of α-1,3-Galactosyltransferase Knockout Pigs by Nuclear Transfer Cloning" <i>Science</i> , 295:1089-1092 (2002).
	C9	Bondioli et al., "Cloned Pigs Generated From Cultured Skin Fibroblasts Derived From a H-Transferase Transgenic Boar", <i>Mol. Reproduc. Dev.</i> , 60:189-195 (2001).
	C10	Sachs et al., "Transplantation in Miniature Swine", <i>Transplantation</i> , 22(6):559-567 (1976).
	C11	Nozawa, S. et al., "Characteristics of Immunoglobulin Gene Usage of the Xenoantibody Binding to" <i>Transplantation</i> , 72(1):147-155 (2001).

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in

conformance and not considered. Include copy with next communication to Applicant.

Subt. Form PTO-1449 INFORMATION DISCLOSURE IN AN APPLICATION (Use several sheets if necessary)		Docket Number IMM-002US1	Application Number 10/524,381
		Applicant Hawley	
		Filing Date August 13, 2003	Group Art Unit NA

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	IDENTIFIER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	IDENTIFIER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	IDENTIFIER	
	C12	Ayares, D. et al., "Cloning Pigs Deficient in Alpha 1,3 Galactosyltransferase" Graft, 4(1):80-82 (2001).
	C13	Gock, H. et al., "Deleting the Gal Epitope from the Donor Pig" Graft, 4(1):76-77 (2001).
	C14	Miyagawa, S. et al., "Masking and Reduction of the Galactose-Alpha 1,3-Galactose (alpha-Gal) Epitope, the Major Xenoantigen in Swine, by the Glycosyltransferase Gene Transfection", Biochemical and Biophysical Research Communications, 264:611-614 (1999).
	C15	Sao, H. et al., "A New Marrow T Cell Depletion Method Using Anti-CD6-Monoclonal Antibody-Conjugated Magnetic Beads and its Clinical Application for Prevention of Acute Graft-vs.-Host Disease in Allogeneic Bone Marrow Transplantation: Results of a Phase I-II Trial", International Journal of Hematology, 69:27-35 (1999).
	C16	Polejaeva, I.A. et al., "Cloned Pigs Produced by Nuclear Transfer from Adult Somatic Cells", Nature, 407:86-90 (2000)
	C17	Onishi, A. et al., "Pig Cloning by Macroinjection of Fetal fibroblast Necleii", Science, 289:1188-1190 (2000)
	C18	Betthauser, J. et al., "Production of Cloned Pigs from In Vitro Systems", Nature Biotechnology, 18:1055-1059 (2000)
	C19	McCreath, K.J. et al., "Production of Gene-Targeted Sheep by Nuclear Transfer From Somatic Cells", Nature, 405:1066-1069 (2000)

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